**Application No.:** 10/606,969

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This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1. (Original) An injectable depot composition comprising:

- (a) a low molecular weight bioerodible, biocompatible polymer;
- (b) a solvent having miscibility in water of less than or equal to 7% at 25°C, in an amount effective to plasticize the polymer and form a gel therewith, wherein said solvent is an aromatic alcohol; and
  - (c) a beneficial agent.
- 2. (Original) An injectable depot composition comprising:
  - (a) a low molecular weight bioerodible, biocompatible polymer;
- (b) a solvent selected from the group consisting of aromatic alcohols, esters of aromatic acids, aromatic ketones, and mixtures thereof, said solvent having miscibility in water of less than or equal to 7% at 25°C, and present in an amount effective to plasticize the polymer and form a gel therewith; and
  - (c) a beneficial agent.
- 3. (Original) The injectable depot composition of claim 1 or claim 2,wherein the aromatic alcohol is not benzyl alcohol and has the structural formula (I)

wherein Ar is aryl or heteroaryl, n is zero or 1, and L is a linking moiety.

- 4. (Original) The injectable depot composition of claim 3, wherein Ar is monocyclic aryl or heteroaryl, n is 1, and L is lower alkylene optionally containing at least one heteroatom.
- 5. (Original) The injectable depot composition of claim 4, wherein Ar is monocyclic aryl and L is lower alkylene.
- 6. (Original) The injectable depot composition of claim 5, wherein Ar is phenyl and L is methylene.

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7. (Original) The injectable depot composition of claim 2, wherein the solvent is mixture of an aromatic alcohol and an ester of an aromatic acid.

8. (Original) The injectable depot composition of claim 7, wherein the aromatic alcohol is benzyl alcohol and the ester of an aromatic acid is a lower alkyl ester or an aralkyl ester of benzoic acid.

- 9. (Original) The injectable depot composition of claim 8, wherein the ester of an aromatic acid is benzyl benzoate and the lower alkyl ester of an aromatic acid is ethyl benzoate.
- 10. (Original) The injectable depot composition of claim 1 or claim 2 wherein the low molecular weight polymer has a molecular weight ranging from about 3000 to about 10,000.
- 11. (Original) The injectable depot composition of claim 10, wherein the low molecular weight polymer has a molecular weight ranging from about 3000 to about 8,000.
- 12. (Original) The injectable depot composition of claim 10, wherein the low molecular weight polymer has a molecular weight ranging from about 4000 to about 6,000.
- 13. (Original) The injectable depot composition of claim 10, wherein the low molecular weight polymer has a molecular weight of about 5000.
- 14. (Original) The injectable depot composition of claim 1 or claim 2, wherein the polymer is selected from the group consisting of polylactides, polyglycolides, polyanhydrides, polyamines, polyesteramides, polyorthoesters, polydioxanones, polyacetals, polyketals, polycarbonates, polyphosphoesters, polyorthocarbonates, polyphosphazenes, succinates, poly(malic acid), poly(amino acids), polyvinylpyrrolidone, polyethylene glycol, polyhydroxycellulose, chitin, chitosan, hylauronic acid and copolymers, terpolymers and mixtures thereof.

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15. (Original) The injectable depot composition of claim 1 or claim 2, wherein the polymer is a lactic acid-based polymer.

16. (Currently Amended) <u>The</u> injectable depot composition of claim 15, wherein the polymer is a copolymer of lactic acid and glycolic acid.

17. (Original) The injectable depot composition of claim 15 comprising about 5 wt.% to about 90 wt.% of a biodegradable, biocompatible lactic acid-based polymer having a weight average molecular weight in the range of about 3,000 to about 10,000.

- 18. (Original) The injectable depot composition of claim 17, wherein the polymer represents about 10 wt.% to about 85 wt.% of the composition.
- 19. (Original) The injectable depot composition of claim 18, wherein the polymer represents about 35 wt.% to about 65 wt.% of the composition.
- 20. (Original) The injectable depot composition of claim 1 or claim 2, further including at least one of the following: a pore former; a solubility modulator for the beneficial agent; and an osmotic agent.
- 21. (Original) The injectable depot composition of claim 1 or claim 2 wherein the beneficial agent is selected from a drug, proteins, enzymes, hormones, polynucleotides, nucleoproteins, polysaccharides, glycoproteins, lipoproteins, polypeptides, steroids, analgesics, local anesthetics, antibiotic agents, chemotherapeutic agents, immunosuppressive agents, anti-inflammatory agents, antiproliferative agents, antimitotic agents, angiogenic agents, antipsychotic agents, central nervous system (CNS) agents, anticoagulants, fibrinolytic agents, growth factors, antibodies, ocular drugs, and metabolites, analogs, derivatives, and fragments thereof.

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22. (Original) The injectable depot composition of claim 21 wherein the beneficial agent is selected from analysics, local anesthetics, antibiotic agents, anti-inflammatory agents, antipsychotic agents, anticoagulants, and metabolites, analogs, derivatives, and fragments thereof.

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- 23. (Original) The injectable depot composition of claim 21 wherein the beneficial agent is present in an amount of from 0.1 to 50% by weight of the combined amounts of the polymer, the solvent and the beneficial agent.
- 24. (Currently Amended) The injectable depot composition of claim 21 wherein the beneficial agent is in the form of particles dispersed or dissolved in the viscous gel.
- 25. (Original) The injectable depot composition of claim 24 wherein the beneficial agent is in the form of particles having an average particle size of from 0.1 to 250 microns.
- 26. (Original) The injectable depot composition of claim 24 wherein the beneficial agent is in the form of particles wherein the particle further comprises a component selected from the group consisting of a stabilizing agent, bulking agent, chelating agent and a buffering agent.
- 27. (Original) An injectable depot composition comprising:
- (a) approximately 5 wt.% to approximately 90 wt.% of a low molecular weight bioerodible, biocompatible polymer;
- (b) an aromatic alcohol having miscibility in water of less than or equal to 7% at 25°C, in an amount effective to plasticize the polymer and form a gel therewith, wherein the aromatic alcohol has the structural formula (I)

$$Ar-(L)_n-OH$$
 (I)

in which Ar is a substituted or unsubstituted aryl or heteroaryl group, n is zero or 1, and L is a linking moiety; and

(c) a beneficial agent.

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28. (Original) An injectable depot composition comprising:

- (a) approximately 5 wt.% to approximately 90 wt.% of a low molecular weight biodegradable, biocompatible lactic acid-based polymer having a weight average molecular weight in the range of approximately 1,000 to approximately 10,000;
- (b) an aromatic alcohol having miscibility in water of less than or equal to 7% at 25°C, in an amount effective to plasticize the polymer and form a gel therewith, wherein the aromatic alcohol has the structural formula (I)

$$Ar-(L)_n-OH$$
 (I)

in which Ar is a substituted or unsubstituted aryl or heteroaryl group, n is zero or 1, and L is a linking moiety; and

- (c) a beneficial agent.
- 29. (Original) An injectable depot composition comprising:
- (a) approximately 5 wt.% to approximately 90 wt.% of a low molecular weight biodegradable, biocompatible lactic acid-based polymer having a weight average molecular weight in the range of approximately 1,000 to approximately 10,000;
- (b) a solvent selected from the group consisting of an aromatic alcohol, an ester of an aromatic acid, and mixtures thereof, said solvent having miscibility in water of less than or equal to 7% at 25°C, and present in an amount effective to plasticize the polymer and form a gel therewith, wherein the aromatic alcohol has the structural formula (I)

$$Ar-(L)_n-OH$$
 (I)

in which Ar is a substituted or unsubstituted aryl or heteroaryl group, n is zero or 1, and L is a linking moiety; and

- (c) a beneficial agent.
- 30. (Original) The injectable depot composition of any one of claims 27, 28 or 29 wherein the low molecular weight polymer has a molecular weight ranging from about 3000 to about 10,000.
- 31. (Original) The injectable depot composition of claim 30, wherein the low molecular weight polymer has a molecular weight ranging from about 3000 to about 8,000.

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32. (Original) The injectable depot composition of claim 30, wherein the low molecular weight polymer has a molecular weight ranging from about 4000 to about 6,000.

33. (Original) The injectable depot composition of claim 30, wherein the low molecular

weight polymer has a molecular weight of about 5000.

34. (Original) The injectable depot composition of any one of claims 27, 28 or 29,

wherein the polymer is selected from the group consisting of polylactides, polyglycolides,

polyanhydrides, polyamines, polyesteramides, polyorthoesters, polydioxanones, polyacetals,

polyketals, polycarbonates, polyphosphoesters, polyorthocarbonates, polyphosphazenes,

succinates, poly(malic acid), poly(amino acids), polyvinylpyrrolidone, polyethylene glycol,

polyhydroxycellulose, chitin, chitosan, hylauronic acid and copolymers, terpolymers and

mixtures thereof.

35. (Original) The injectable depot composition of claim 34, wherein the polymer is a

lactic acid-based polymer.

36. (Original) The injectable depot composition of claim 35, wherein the polymer is a

copolymer of lactic acid and glycolic acid.

37. (Original) The injectable depot composition of claim 34 comprising about 5 wt.% to

about 90 wt.% of a biodegradable, biocompatible lactic acid-based polymer having a weight

average molecular weight in the range of about 3,000 to about 10,000.

38. (Original) The injectable depot composition of claim 37, wherein the polymer

represents about 10 wt.% to about 85 wt.% of the composition.

39. (Original) The injectable depot composition of claim 38, wherein the polymer

represents about 35 wt.% to about 65 wt.% of the composition.

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40. (Original) The injectable depot composition of any one of any one of claims 27, 28 or

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29, wherein Ar is monocyclic aryl or heteroaryl, n is 1, and L is lower alkylene optionally

containing at least one heteroatom.

41. (Original) The injectable depot composition of claim 40, wherein Ar is monocyclic

aryl and L is lower alkylene.

42. (Original) The injectable depot composition of claim 40, wherein Ar is phenyl and L

is methylene.

43. (Original) The injectable depot composition of any one of claims 27, 28 or 29,

wherein the aromatic alcohol is benzyl alcohol.

44. (Original) The injectable depot composition of claim 29, wherein the solvent is

mixture of an aromatic alcohol and an ester of an aromatic acid.

45. (Original) The injectable depot composition of claim 44, wherein the aromatic alcohol

is benzyl alcohol and the ester of an aromatic acid is a lower alkyl ester or an aralkyl ester of

benzoic acid.

46. (Original) The injectable depot composition of claim 45, wherein the ester of an

aromatic acid is benzyl benzoate and the lower alkyl ester of an aromatic acid is ethyl

benzoate.

47. (Original) The injectable depot composition of claim 44, wherein the ratio of the

aromatic alcohol to the ester of an aromatic acid is in the range of about 1% to about 99% by

weight.

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48. (Original) The injectable depot composition of claim 47, wherein the ratio of the aromatic alcohol to the ester of an aromatic acid is in the range of about 20% to about 80% by weight.

- 49. (Original) The injectable depot composition of claim 45 comprising about 5 wt.% to about 90 wt.% of a biodegradable, biocompatible lactic acid-based polymer having a weight average molecular weight in the range of about 3,000 to about 10,000.
- 50. (Original) The injectable depot composition of any one of claims 27, 28 or 29, further including at least one of the following: a pore former; a solubility modulator for the beneficial agent; and an osmotic agent.
- 51. (Original) The injectable depot composition of any one of claim 27, 28 or 29 wherein the beneficial agent is selected from a drug, proteins, enzymes, hormones, polynucleotides, nucleoproteins, polysaccharides, glycoproteins, lipoproteins, polypeptides, steroids, analgesics, local anesthetics, antibiotic agents, chemotherapeutic agents, immunosuppressive agents, anti-inflammatory agents, antiproliferative agents, antimitotic agents, angiogenic agents, antipsychotic agents, central nervous system (CNS) agents, anticoagulants, fibrinolytic agents, growth factors, antibodies, ocular drugs, and metabolites, analogs, derivatives, and fragments thereof.
- 52. (Original) The injectable depot composition of claim 51 wherein the beneficial agent is selected from analysics, local anesthetics, antibiotic agents, anti-inflammatory agents, antipsychotic agents, anticoagulants, and metabolites, analogs, derivatives, and fragments thereof.
- 53. (Original) The injectable depot composition of claim 51 wherein the beneficial agent is present in an amount of from 0.1 to 50% by weight of the combined amounts of the polymer, the solvent and the beneficial agent.

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54. (Currently Amended) The injectable depot composition of claim 51 wherein the beneficial agent is in the form of particles dispersed or dissolved in the viscous gel.

- 55. (Original) The injectable depot composition of claim 54 wherein the beneficial agent is in the form of particles having an average particle size of from 0.1 to 250 microns.
- 56. (Original) The injectable depot composition of claim 54 wherein the beneficial agent is in the form of particles wherein the particle further comprises a component selected from the group consisting of a stabilizing agent, bulking agent, chelating agent and a buffering agent.
- 57. (Original) An injectable depot composition comprising:
- (a) approximately 5 wt.% to approximately 90 wt.% a low molecular weight poly(lactide-co-glycolide) (PLGA) copolymer having a weight average molecular weight in the range of approximately 3,000 to approximately 10,000;
- (b) approximately 5 wt.% to approximately 90 wt.% an aromatic alcohol solvent having miscibility in water of less than or equal to 7% at 25°C, in an amount effective to plasticize the polymer and form a gel therewith; and
  - (c) a beneficial agent.
- 58. (Original) The injectable depot composition of claim 57, wherein the aromatic alcohol is benzyl alcohol.
- 59. (Original) An injectable depot composition comprising:
- (a) approximately 5 wt.% to approximately 90 wt.% of a low molecular weight poly(lactide-co-glycolide) (PLGA) copolymer having a weight average molecular weight in the range of approximately 3,000 to approximately 10,000;
- (b) approximately 5 wt.% to approximately 90 wt.% of a solvent selected from the group consisting of an aromatic alcohol, an ester of an aromatic acid, and mixtures thereof, said solvent having miscibility in water of less than or equal to 7% at 25°C, and present in an amount effective to plasticize the polymer and form a gel therewith; and

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(c) a beneficial agent.

60. (Original) The injectable depot composition of claim 59, wherein the aromatic alcohol

is benzyl alcohol and the ester of an aromatic acid is benzyl benzoate.

61.-104 (Cancelled).

105. (Original) A kit for administration of a beneficial agent to a subject comprising:

(a) a low molecular weight bioerodible, biocompatible polymer;

(b) a solvent selected from the group consisting of aromatic alcohols, esters of aromatic acids, aromatic ketones, and mixtures thereof, said solvent having miscibility in water of less than or equal to 7% at 25°C, and present in an amount effective to plasticize the

polymer and form a gel therewith; and

(c) a beneficial agent; and optionally, one or more of the following:

(d) an emulsifying agent;

(e) a pore former;

(f) a solubility modulator for the beneficial agent, optionally associated with the

beneficial agent; and

(g) an osmotic agent;

wherein at least the beneficial agent, optionally associated with the solubility

modulator, is maintained separated from the solvent until the time of administration of the

beneficial agent to a subject.